

Bulletin

No. 10 34th year

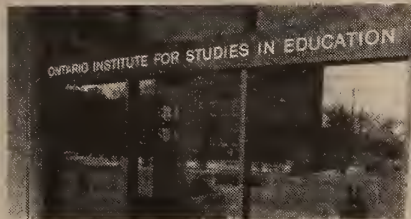
University of Toronto

Monday, December 22, 1980

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President defends record on computers

'Computer operating budget less than other universities', he tells council

In a lengthy statement to Governing Council Dec. 18, President James Ham responded to charges made by Professor George Luste, Department of Physics, that the University has wasted millions of dollars over the last several years on inappropriate computer hardware. Prof. Luste's charges were made in a letter he sent to the President, the *Bulletin* (Dec. 8) and Governing Council members. President Ham said that since the letter was intended for the University community, he had decided to respond in a statement to Governing Council.

Luste's main argument is that the administration has wasted millions equipping the central computer services of the University of Toronto Computing Services (UTCS) when decentralized computer services are more cost-effective.

In his statement, President Ham said that the percentage of the University operating budget expended on computation for all purposes through the services of UTCS and in medicine was 3.8 percent in 1976, and decreased to 3.5 percent in 1980. In comparison with

the figures of other universities—6.4 percent at Waterloo, 4.5 percent at Western, 4.2 percent at McMaster and Queen's—President Ham noted that U of T is "distinctly the lowest". (The figures do not account for all the specialized decentralized services.)

Luste's letter criticizes the administration for purchasing an IBM 3033 in 1978 "when its capacity was far in excess of any identifiable need". President Ham said the decision to purchase the machine was made after an intensive review, a recommendation from the Presidential Advisory Committee on Computing Facilities & Services, discussion by the Research Board—in which Prof. Luste played a strong role, according to the President—and on the advice of an expert external consultant.

The President also said there is no evidence to support Luste's allegation that administrative computing costs "have headed for the moon".

"There has been no significant growth in real costs, despite, for example, the extension of the student record system

allowing all major faculties to input records by computer terminal rather than keeping more costly manual records.

President Ham rejected Luste's scheme that computer dollars allocated to divisions, which must be spent on UTCS services, be freed up; by doing this, says Luste, a department could possibly buy its own machine, and UTCS operations, based on user preference, would be more efficient.

"To allow free divisional choice in its expenditure would be irresponsible both with respect to divisional planning and University budgeting," said the President. However, he said guidelines are presently being developed which will enable divisions who contend their computer service needs are not being met, to put forward a plan, to be tested against what UTCS can or cannot do, and have decisions at the budgetary level made to implement it.

Meanwhile, added the President, during the past two years, "no division or department additional to those already possessing their own computer facilities,

has pressed to have its own".

The VIVA project is not "ill-considered" said President Ham, responding to another charge, but is "too advanced a project to be realized soon enough to meet the current real problem of an inadequate basic undergraduate computing service". Although there are "several... advanced services used by undergraduates of quite acceptable quality", the President agreed with Professor Luste that the undergraduate basic computing service is inadequate.

He said this is because the service is unrationed, the major user departments have not exerted themselves sufficiently to define their needs clearly and the needs of computing in research have occupied the major attention of UTCS. Large enrolment increases in computer science and continuing growth in computer-based instruction is exacerbating the problem, said the President. A task group has been established to ameliorate the problem of overload, he said.

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Season's Greetings from the staff of the Bulletin



Potential asbestos hazards to be monitored by task force

by Sarah Murdoch

The University has set up a task force to monitor and study the potential hazards posed by asbestos used in the insulation and fire-proofing of older buildings on campus.

"We now comply with all existing standards... but the risks to health from low level asbestos are simply unknown," Vice-President—Personnel and Student Affairs William Alexander told the Business Affairs Committee last week.

He said a series of tests for airborne asbestos fibres conducted by a group of consultants indicated that all buildings examined conform to occupational health guidelines and more stringent provincial regulations now under consideration.

The long-term carcinogenic effects of high concentrations have been well-documented in studies of asbestos workers. The effects of low-level exposure are uncertain but asbestos has been banned in building construction.

The current provincial rules call for exposure no higher than two fibres per cubic centimetre of air; the proposed rules call for significantly lower levels, varying with the type of asbestos used.

The University set for itself a base level of no more than .04 fibres per cubic centimetre of air, the guideline adopted by the Ministry of the Environment for outdoor air.

Using this yardstick, asbestos levels in three buildings surveyed—the Edward

Johnson Building, the zoology building and Sidney Smith Hall—"constitute a slight risk", the consultants' report noted. Alexander said that at these recorded low levels, the accuracy of the testing instruments is considered questionable by authorities on asbestos hazards.

Airborne levels in the Edward Johnson Building ranged from .010 to .051, in the zoology building from .021 to .066 and in Sidney Smith Hall, from .032 to .072.

"While it may thus be concluded that only in three buildings so far surveyed is there even a remote likelihood of physiologically significant exposure to asbestos, the University may consider that, in view of the increasing demand for more stringent control of airborne toxic materials and in the interests of good public relations, the reduction of asbestos exposure to the lowest practicable level should be attempted," the consultants' report concludes.

The other buildings surveyed were the Medical Sciences Building, Benson Building, 215 Huron St., Galbraith Building, 256 McCaul St., Roberts Library, Forestry Building, University Bookroom, the Textbook Store, and the Borden Building.

Alexander told the committee that of greater concern than existing airborne

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Governing Council

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Finally, the President commented on Prof. Luste's criticism of the University for spending \$1 million for a central computing facility for UTCS in the physics building.

"The consolidation was necessitated by the Sandford Fleming building fire. A consolidated central facility was in any event desirable."

Budget

The President reported that due to higher than expected enrolment and fee income, it will be possible to implement the supplementary budget provided for in last year's budget.

\$1 million will be distributed as follows:

- \$100,000 for the library, for cataloguing purposes
- \$250,000 for equipment for academic divisions
- \$200,000 towards inflationary costs and supplies
- \$450,000 to physical plant for crisis maintenance problems

As for this year's budget, the President reported that the first phase of adjusting the base budgets of divisions has been completed, describing it as "a particularly painful process this year".

Although there is a tendency to see this phase as simply cutting, President Ham said the underlying purpose is to contribute to the body of funds for reallocation, to put resources in the most effective places possible.

As usual, he said the University is planning the budget without knowing what funds will be available from the government, although "there is some intimation that the government will be modestly more generous than last year; whether that will be so relative to the level of inflation remains to be seen".

The full text of President Ham's statement will be printed in the Jan. 12 *Bulletin*.

Varsity Arena

The administration is studying the possibility of mounting a special private funding campaign to pay for renovation of Varsity Arena. \$800,000 is needed to renovate the roof, bring the arena up to

fire safety standards and absorb the costs of a new cooling system.

The University doesn't have the resources to make the necessary renovations, said the President. He added that if enough people don't get interested, the prospect of "mothballing" the arena exists.

Huron-Sussex tenants

The President reported on a situation relating to a University-owned Huron-Sussex property, where a tenant is renting to sub-tenants, who are students and who are being over-charged.

He said there are probable grounds for eviction of the primary tenant and the University is taking action. In the meantime, the sub-tenants have been advised that there is basis for an appeal to the Residential Tenancies Commission, and the University has provided them with the necessary documentation. The President said the University would not evict the students before the end of the academic year.

Acting vice-president — business affairs

President Ham announced that M.E. Dedrick, director of finance, has been appointed acting vice-president of business affairs, filling in for Alex Rankin who is recovering from an illness. Rankin continues in vice-presidential capacity to do special project work for the President on the University of Toronto Library Automation Systems and "pension questions".

Other Business

Teaching staff representative Roger Beck presented a notice of motion for Governing Council to debate the principles underlying the budget. He said that although it was important for council to consider such models as deficit financing, sale of property, radical excision, and other possible means of facing the current crisis, he chose a motion that focuses on a deficit model. The notice of motion now goes to the Executive Committee which will consider it for inclusion on a Governing Council or standing committee agenda.

Governing Council — Dec. 18, 1980

- approved the University's capital requests to the Ministry of Colleges & Universities for 1981-82
- approved revised terms of reference of U of T Radiation Protection Authority

Search committee for chairman of medical biophysics

A search committee has been established to recommend a professor and chairman of the Department of Medical Biophysics, for effect July 1, 1981.

The membership of the committee is: Dr. Edward Llewellyn Thomas, associate dean, Faculty of Medicine (*chairman*); Professor A.M. Zimmerman, School of Graduate Studies representative; Drs. P.D. Sadowski, Department of Medical Genetics; R.S. Bush, Department of Radiology and director, Ontario Cancer

Institute; H.E. Johns, Ontario Cancer Institute; Rose Sheinin, Department of Microbiology & Parasitology; K.W. Taylor, Department of Radiology; and F.P. Ottensmeyer, Alan Bernstein and R.G. Miller, Department of Medical Biophysics.

The committee welcomes suggestions and these may be submitted, preferably in writing, to the chairman or to any member.

Governing Council nominations open

Nominations will open Jan. 12 and will remain open until noon, January 23 for the following positions:

- 4 full-time undergraduate student seats
- 2 part-time undergraduate student seats
- 2 graduate student seats
- 4 teaching staff seats

Vested in the Governing Council are the management and control of the University and of University College, and the property, revenues, business and affairs thereof.

Details of constituencies and electoral procedures will be published in the *Bulletin* on Jan. 12. Nomination forms will be available upon request on Jan. 5, and thereafter, from the Governing Council Secretariat, Room 106, Simcoe Hall, or at the registrars' offices at Scarborough and Erindale Colleges. Enquiries may be directed to the Governing Council Secretariat at 978-6576.

'Drop me . . . and I'll break your neck' is not what the silent film's subtitle said she said

Dedication to one's scholarly discipline can produce bizarre behaviour. Take the case of Professor Barrie Hayne, associate chairman for undergraduate studies in the Department of English.

On the subway, Prof. Hayne has taken to staring intently at people in the far end of the car. At home, he watches television with the sound turned off.

The reason? He's practising lip reading for an evening class at Northern Secondary School. Unlike most of his classmates, though, he is not hard of hearing.

A member of the cinema studies committee at Innis College, his specialty is silent film and he wants to know when the subtitles do not accurately reflect what the actors were actually saying.

"I'm trying to put myself back into the mind set of silent cinema audiences," he explains. "In that era, filmgoers watched more closely and could see more clearly. They were more attuned to facial movements and body language.

"Now, in order to study silent films,

people have to be educated away from the habit of listening."

Although Hayne is diligently applying himself to the second year of a three-year program in lip reading, he says he can never expect to achieve much more than 40 percent accuracy.

"A great deal of it has to be guesswork."

As for circumspect subtitles, Hayne's favourite occurs in the silent film *Three Weeks*, written by Eleanor Glynn and starring Conrad Nagle and Aileen Pringle.

The stars are clasped in a passionate embrace, the heroine bent backwards over her ardent lover's arm. The subtitle is something appropriately gushy and romantic but soon after the film's release, outraged letters (mostly from deaf viewers) began pouring in to the studio.

The correspondents had noted what the subtitles hadn't—namely that what Pringle actually said was: "Drop me, you bastard and I'll break your neck."

Notice to U of T AAAS conference participants

U of T's public relations office will be providing liaison with the media at the American Association for the Advancement of Science conference January 3-8, 1981.

Often there are media requests before a session, immediately following it, or a day or two later.

As there will be more than 50 professors participating and 200 media representatives in attendance, the public

relations office would appreciate knowing how and where to contact U of T speakers.

During the conference, you may leave messages of your whereabouts for: Nona Macdonald, PR Manager, U of T, at the AAAS office, either in the Sheraton Centre's Elgin Room or the Royal York's Prince Edward Island Room.

On campus the PR office is located at 45 Willcocks St., telephone 978-2103.

Asbestos hazards

Continued from Page 1

asbestos levels is the potential danger posed by "friable" asbestos material, which can crumble and release fibres into the air: "The concern here is not the presence of such exposed and friable coatings per se, but rather that such coatings may break away or be physically removed, potentially resulting in high atmospheric concentration of asbestos over a short period of time. This is particularly so in areas where direct contact by individuals is possible. It is this risk that the University should address immediately," Alexander's report to the committee says.

The Business Affairs Committee accepted the consultants' report in principle and endorsed a request for an amendment to the capital budget to include \$890,000 to launch renovations. The building identified in the submission is the Edward Johnson Building, which opened in 1964.

The task force set up to study the

matter will consider where the greatest potential risk exists, monitor on-going air sample tests and consider the best means of containing or eliminating asbestos coatings.

Alexander told the committee that preliminary estimates of the cost to the University of completely eliminating asbestos coatings from the three buildings would be about \$5 million, a sum considered excessive when balanced against the remote likelihood of danger, he said.

The \$890,000, he said, will ensure that a priority is established for funding changes to the Edward Johnson Building or other projects.

The task force will consider encapsulating, enclosing and removing friable asbestos materials in buildings, as well as other alternatives like changes to the ventilation systems, he said.



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OISE needs 'star system' to enhance prestige, task force recommends

An Ontario Institute for Studies in Education (OISE) task force has recommended the adoption of a "star system" to enhance the international prestige of the institute and attract superior staff and students.

"Because of its solid base of staff competence, OISE may be ready for a quantum leap forward on the national and international scenes," the three-member task force on the impact of research, development and field activities of OISE concluded in its recently released report.

The establishment of a series of chairs or special appointments for the new positions would produce "an aura of excitement and a feeling that exceptional things are happening". The report says about 20 stars at OISE would be needed to bring about the heightened prestige the task force envisions.

"Not only would the outstanding thinkers raise the stature of the institute by their identification with it, but they would attract more able colleagues and students who wish to work and study with them. The influence of the 'stars' would extend well beyond the borders of Ontario and endure for generations," the report says.

The issue of where such stars would come from "is a sensitive and emotional one in Ontario," the report continues. It says half a dozen stars are already on staff and should fill some of the new posts. Others might come from universities in England, France, the US, Germany and elsewhere in Canada. "But not exclusively even there. Gold is where you find it. Ontario must, in respect of these appointments at least, drop its sensitivity in this matter."

The report notes that in the current economic climate it is unlikely government will provide total funding for the generous salaries and job stability top scholars expect. Therefore, OISE must turn instead to the private sector, to foundations, major businesses and industrial organizations.

The members of the task force were Nathaniel Lees Gage of Stanford University, Torsten Husen of the University of Stockholm, and James Singleton, a former director of education for the Burlington board of education and Halton

region and a past executive member of provincial teaching organizations and education ministry committees. The report is based on about 2,000 questionnaires completed by the OISE constituency, including participants in OISE projects and conferences, school board officials, school trustees and OISE faculty members. The group also considered in their deliberations scholarly publications from the institute, reports of OISE department heads and newspaper articles concerning OISE.

The report concludes OISE is a "world class organization", ranked in the top 10 educational research institutes in North America by the majority of colleagues consulted and clearly the top institute of its kind in Canada.

But OISE should develop a clearer definition of its priorities and make a conscious decision to channel its resources into those activities which are most productive. "We are not persuaded that OISE, as an institutional entity, possesses the desire or self-knowledge to make such decisions. Further, the highly complex decision-making mechanisms within the institute appear to us to be subject to frequent change and unlikely to enforce long-term policies of this kind.

"This route is possible, however, if there exists a certain kind of leadership — leadership at both the central and departmental levels that forces the institute as a whole to face up to the realities of its situation and focuses aspiration and resources consistently toward the goal of increased impact."

The report says periodic staff reviews for both tenured and untenured faculty members would ensure quality of performance and increase knowledge of the scope of institute programs among faculty. It also suggests that evaluation of project work should become routine, with evaluations carried out by external reviewers where appropriate.

The report also recommends that the institute strike an appropriate balance between basic educational research and developmental work. Short-term pressures or inducements should not be allowed to tip program emphasis permanently in one direction, it says.

Program of Ontario-Quebec exchange projects

In accordance with the 1969 agreement for cooperation and exchange in educational and cultural matters between Ontario and Quebec, the Ministries of Intergovernmental Affairs and Education of Quebec and the Ministry of Colleges & Universities of Ontario have set up a program of exchange between the colleges and universities in each province.

Projects eligible for funding under this program are:

- (1) Educational exchanges — for students to take credit courses or attend educational or cultural activities — for faculty to teach courses or for professional development
- (2) Research projects — preference will be given to joint projects which involve an exchange and the use of the second language

- (3) Exchanges to improve the teaching of the second language
- (4) Exploratory visits to plan an exchange project

Projects will be evaluated on quality and relevance of content, level of involvement, extent of the use of the second language, expected impact, and degree of reciprocity. Funds will be used to support new and innovative exchange projects rather than on-going ones. Projects should normally take place between April 1981 and March 1982. Deadline for submission of applications is January 31. Applications and guidelines are available from respective deans.

For more information telephone Claude Lacombe, Ministry of Colleges & Universities, 965-3878.

Frye one of OISE fellows

Three leaders in the field of education were recently awarded the title of fellow of the Ontario Institute for Studies in Education (OISE).

Receiving the annual award this year were Northrop Frye, University Professor and Chancellor of Victoria University; Madeline Hardy, director of the Board of Education for the City of London; and George Waldrum, chairman of the Civil Service Commission.

The fellow awards were created by OISE in 1973 to recognize outstanding leadership in education in Ontario.

In announcing the awards, OISE described Professor Frye as one of Canada's leading literary scholars. "His colleagues claim that his writings, notably *Anatomy of Criticism*, have revolutionized the way scholars look at literature." Frye was named Chancellor of Victoria in 1978.

Hardy "is recognized in Ontario and beyond as a leader in the field of special

education. Her appointment earlier this year as director of education for the City of London is seen as having particular significance for women in education." She is the first woman to be named director of a large city board in Ontario.

Waldrum was appointed chairman of the Civil Service Commission in 1979. He was formerly deputy minister of education, a position he held for five years. Previous to joining the Department of Education in 1961, Waldrum served as a teacher and principal in the public schools in Guelph. Active in professional organizations, Waldrum is a past president of the Ontario Public School Men Teachers' Federation and a past member of the Ontario Teachers' Federation Board of Governors. He is also a past president of the Canadian Education Association. "During his years as deputy minister of education, Waldrum earned the respect and affection of teachers, trustees and administrators."

Poor economy doubles FEUT's anticipated enrolment

The students are 'risk-takers' — and mostly women

Enrolment in the BEd program at the Faculty of Education (FEUT) is almost double the number anticipated last January. The target then was 650; the actual count has turned out to be 1,223.

With the depressed market for teachers, enrolment at FEUT had been declining steadily since 1976, says associate dean Walter London. So it was no surprise when, by the beginning of 1980, applications were at an all-time low.

But by spring, there was an unusual spate of applicants. Many had just graduated and found themselves either unemployed or in a dead-end job due to the downturn in the economy. Most were women.

"Back in the 1970s, when most of our students were preparing to teach in secondary schools, the ratio of male to female was about 50/50," says London. "Now female students constitute 74 percent of total enrolment."

"That's probably a reflection of the greater employment opportunities (outside teaching) for male arts and science graduates."

While women make up almost three-quarters of the overall full-time enrolment at FEUT, they only constitute 63 percent

of students training to be secondary school teachers. In the primary-junior stream, however, 95 percent are women. In the junior-intermediate stream, that percentage drops to 77.

What are the prospects for employment in the education system?

"The person who comes here now is a risk-taker," says London. "They have a one-in-two chance of getting a job."

The number of disappointed BEd grads will be reduced somewhat next year, though, because FEUT plans to cut its enrolment ceiling down to 1,000.

"Since 1975, there have been no new tenure-stream appointments and teaching staff has been reduced by 33 percent. Also, we've withdrawn from rented space at Tartu College and the Ontario Institute for Studies in Education (OISE), so we can't absorb unlimited numbers of students; nor should we attempt to."

To offset the fiscal effects of shrinkage in the regular session, the winter evening program has been expanded to serve 2,000 students, and the summer certificate program to serve 3,000.

65% of staff terminated for fiscal reasons find jobs

Thirty-four of the 52 University employees whose jobs were eliminated for fiscal reasons last year had found new employment by the end of October, the Business Affairs Committee was told last week.

However, 10 employees were still seeking relocation: four of them still on staff, six on unpaid leave. The remaining eight had left the University altogether.

Vice-President — Personnel and Student Affairs William Alexander told committee members that relocating the remaining 10 employees poses "considerable difficulty" because "it is not always possible for the Personnel Department to find a position that is acceptable to the individual". This may be because jobs are scarce in the employee's area of expertise or because personal preferences narrow their options for relocation.

Of the 34 employees who have been relocated, 26 had found work in another department, five had stayed in the original department and three had taken jobs outside the University. Alexander said the one month's salary for the individual paid to departments as an incentive to hire employees whose positions had become redundant may account for the large numbers who have been relocated within the University.

Rianna Wallace, president of the U of T Staff Association, said "clear preference

in internal hiring should be given to people whose jobs have been eliminated". She added it is important that departments have a knowledge of and adhere to the policies guiding the relocation of such employees.

She was told that the Personnel Department does give preference to such candidates before the job openings are posted throughout the University.

New chairman of Latin American Studies Committee

Professor D.L. Raby, Erindale College, Department of History, has been appointed chairman of the University's Latin American Studies Committee (under the Centre for International Studies) for a two-year term. As chairman he will be responsible for organizing and coordinating interdisciplinary activities relating to Latin America.

1981 University College symposium Towards Nationhood: Canada in the second half of the 19th century

From singing to running; from D'Arcy McGee to Emile Nelligan; from Victorian views of Canadian English to scientific societies; from trade unions to Indian reserves: in the week of Jan. 19-23 University College is holding its third annual symposium, devoted this year to the topic "Towards Nationhood: Canada in the Second Half of the 19th Century". During the afternoons there will be talks illustrating a large number of facets of the topic. Most of the speakers teach at the University and they include well-known scholars and public figures such as John Beckwith, Martin Friedland, Frances Halpenny, Bruce Kidd, Desmond Morton and Mel Watkins. Others include Claus Breede, the director of the Bruce County Museum in Southampton, as well as speakers from other Ontario universities (Brock, McMaster, Trent, York) and from the University of New Brunswick.

An evening program will complement the talks: films and videotapes will be

shown on Monday, Tuesday and Wednesday; on Thursday James Reaney (playwright and poet, professor of English at the University of Western Ontario and UC alumnus) will give an illustrated talk (illustrated by actors, that is) entitled "The Donnellys into Drama"; on Friday the symposium will close with a reading of Donna Smyth's *The Strickland Sisters*, a short play based on the writings of Susanna Moodie and Catherine Parr Trail and exploring their relationship as sisters, followed by the performance of 19th century popular Canadian songs.

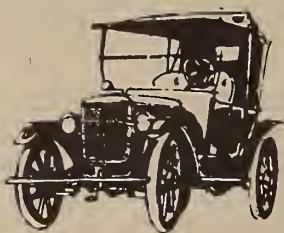
There will also be exhibitions including one of the watercolours of Sir Edmund Walker Head and one of 19th century scientific instruments.

The *Bulletin* of Jan. 12 will contain detailed listings in Events. Meanwhile a brochure with the complete program is available from Prof. H.B. de Groot, University College, telephone, 978-4004.

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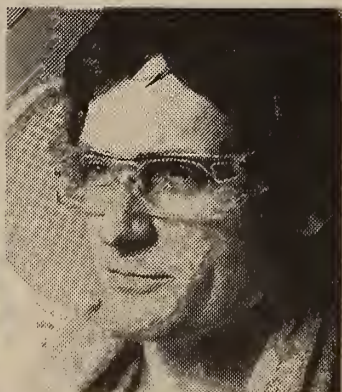
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Job Openings

Below is a partial list of job openings at the University. Interested applicants should read the Promotional Opportunity postings on their staff bulletin boards, or telephone the Personnel Office for further information. The number in brackets following the name of the department in the list indicates the personnel officer responsible. Please call: (1) Sylvia Holland, 978-6470; (2) Margaret Graham, 978-5468; (3) Jack Johnston, 978-4518; (4) Ann Sarsfield, 978-2112; (5) Barbara Marshall, 978-4834.

Programmer II
(\$16,740—19,700—22,660)
Student Record Services (3), Computing Services (3)

Programmer III
(\$20,630—24,280—27,930)
Computer Science (1), Computing Services, three positions (3), Student Record Services (3), Faculty Office, Arts & Science (1)

Programmer IV
(\$25,430—29,930—34,430)
Computing Services (3)

Engineering Officer II
(\$22,900—26,940—30,980)
Computing Services (3)

Library Technician
(casual help, \$3.45 per hour)
Science & Medicine Library (5)

Engineering Technologist I
(\$12,950—15,250—17,550)
Biomedical Instrumentation Development Unit (5), Physical Plant (2), Erindale (4)

Engineering Technologist II
(\$15,940—18,760—21,580)
Physical & Health Education (5)

Research Analyst
(\$17,700—20,820—23,940)
Benefit Plans Comptroller's Office (2)

Administrative/Editing Assistant
(\$12,280—14,440—16,600)
Hungarian Chair, 50 percent position (1)

Audio-Visual Technician II
(\$11,150—13,130—15,110)
Scarborough College (4)

Administrative Assistant I
(\$12,280—14,440—16,600)
Dean's Office, Medicine (4)

Secretary/Archivist
(\$11,150—13,130—15,110)
French (1)

Payroll Clerk
(\$11,150—13,130—15,110)
Comptroller's Office (2)

Publications Production Assistant I
(\$9,200—10,830—12,460)
U of T Press (5)

Forest Fire Research Assistant
(\$12,280—14,440—16,600)
Forestry (5)

Editor I
(\$12,280—14,440—16,600)
Medieval Studies (1)

Direct Mail Supervisor
(\$13,660—16,070—18,480)
U of T Press (5)

Programmer C
(Union, \$16,575—19,061)
Library Automation Systems (3)

Engineering Technologist
(Union, \$16,575—19,061)
Library Automation Systems (3)

Craftsman III
(\$16,740—19,700—22,660)
Aerospace Studies (5)

Programmer Analyst
(\$20,383—23,501)
Library Automation Systems (3)

Program Coordinator
(\$24,160—28,420—32,680)
Continuing Studies (2)

PhD Orals

Since it is sometimes necessary to change the date or time of an oral examination, please confirm the information given in these listings with the PhD oral office, telephone 978-5258.

Tuesday, January 6
Deborah Jurdjevic, Department of English, "Edwin Muir: Poet of Continuity." Prof. M.C. Kirkham. Room 111, 63 St. George St., 2 p.m.

Thursday, January 8
Magda Havas, Department of Botany, "Effect of SO(2) Fumigations on Tundra Ponds at the Smoking Hills, N.W.T." Prof. T.C. Hutchinson. Room 309, 63 St. George St., 10 a.m.

Barry Eugene Edginton, Department of Sociology, "The Formation of the Asylum in Upper Canada." Prof. N. Bell. Room 307, 63 St. George St., 10 a.m.

Friday, January 9
Peter John Carrington, Department of Sociology, "The Canadian Holding Company." Prof. L. Tepperman. Room 309, 63 St. George St., 10 a.m.

Philip Vasil Yaneff, Department of Chemistry, "Monoisocyanide and Diisocyanide Complexes of Rhodium." Prof. J. Powell. Room 307, 63 St. George St., 10 a.m.

Antoinette De Kir, Department of Comparative Literature, "Space and the Reader of Drama: An Analysis of Thérèse Raquin, Vor Sonnenaufgang and the Three Sisters." Prof. C. Hamlin. Room 111, 63 St. George St., 10 a.m.

Eugene Fredrick Willis, Department of French, "Patrons ludiques dans l'oeuvre romanesque de Samuel Beckett." Prof. B.T. Fitch. Room 111, 63 St. George St., 2 p.m.

Monday, January 12
Maija Svank, Department of Computer Science, "Integrity Analysis: A Methodology for EDP Audit and Data Quality Control." Prof. E.S. Lee. Room 309, 63 St. George St., 10 a.m.

Wednesday, January 14
Ignac Joseph Jakovac, Department of Chemistry, "The Use of Enzymes in Organic Synthesis. Some Applications of Horse Liver Alcohol Dehydrogenase." Prof. J.B. Jones. Room 309, 63 St. George St., 9.30 a.m.

Thursday, January 15
Sudhir R. Arora, Department of Computer Science, "Theory and Applications of Well Connected Relations." Prof. K.C. Sevcik. Room 309, 63 St. George St., 4 p.m.

Bulletin

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Hungarian books donated

The government of the Hungarian People's Republic has donated 75 books and a number of records to the University to further Hungarian studies. They were presented recently by His Excellency Gyula Budai, Ambassador of Hungary, to Arthur Kruger, dean of the Faculty of Arts & Science. Also at the presentation were Sandor Papp, second secretary, press and cultural affairs of the embassy of the Hungarian Peoples' Republic and Professor George Bisztray, Hungarian Chair, Department of Slavic Languages & Literatures.

Metro library costs U of T over \$1 million

The University has bought the old Metropolitan Toronto Reference Library for \$1,110,065.

The purchase, completed Nov. 27, includes the library, the adjoining parkette and half the parking lot.

The parking lot will continue to be managed by the city parking authority, with profits split equally by the two owners, the Toronto Public Library Board and the University. Total income from the parking lot is about \$20,000 a year.

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U of T press director wins Canadian publishing award

Cited for role in saving McGill-Queen's press

Harald Bohne, director of the University of Toronto Press, is the 1980 winner of the Eve Orpen Award for Publishing Excellence. The award, presented annually in commemoration of the late Eve Orpen, one of the founders of the publishing company Lester & Orpen Dennys Ltd., is given to an individual who has made a significant contribution to publishing in Canada. The amount of the award is \$1,000.

Bohne has been active in Canadian publishing since emigrating to Canada from Germany in 1954. Soon after his arrival he joined the Press and in 1958 became manager of the University bookstore; during his tenure the store became the largest retail outlet for books in Canada. In 1966 he was appointed business manager of the Press; in 1975, associate director; and finally, in 1977, director.

In announcing the award, Lester & Orpen Dennys said that Bohne "has devoted an extraordinary amount of time to work on behalf of the Canadian publishing industry. He has been involved in the planning of significant Canadian bibliographies and directories such as *Canadian Books in Print*, the *Canadian Serials Directory* and the *Canadian Essay and Literature Index*. He has co-authored, with Harry Van Ierssel, *Publishing: The Creative Business*. He has



been a Canadian representative on the International Standard Book Numbering Committee; vice-president of the Association for the Export of Canadian Books; vice-president of the Canadian Book Publishers' Council; and president of the Association of Canadian Publishers."

The award's selection committee cited particularly Bohne's successful efforts this year in developing a plan for the continuation of the McGill-Queen's University Press.

Books

Little to learn from chiropractor book

Chiropractors. Do They Help?
Merrijoy Kelner, Oswald Hall and Jan Coulter
Beaver Books

At a time when there is necessity to delineate the specific effects of various activities carried out by health professionals, it is sad that a book produced by three eminent social scientists, *Chiropractors. Do They Help?* should make such a sorry appearance.

Here was a unique opportunity, after a prolonged inquiry into the activities of chiropractors, to set down a clear statement of the efficacy of manipulation or other activities which they perform. Instead, the book produces bland sinewless opinions of who chiropractors are, how they got that way, and where they intend to go. There is no attempt to judge the clinical efficacy of chiropraxis for any particular condition.

The reader is further disturbed by the obvious confrontational tactics of the authors who continually compare chiropractors with medical doctors, usually to the detriment of the latter. While this may be fair comment, the obvious prejudices in reporting what doctors do leads one to doubt any of the factual assertions in the book.

There is, however, some red meat. This is contained mostly in the tables which demonstrate the type of action in a chiropractor's practice and, in particular, the length and periodicity of patient contact.

While chiropractors, like other health professionals, are making a great to-do about holistic patient care (which apparently doctors do not give), it is interesting to note the amount of time actually spent with clients in order to achieve this meeting of somas and souls. It appears that 40 percent of clients who go to chiropractors receive 20 minutes of his time on the first visit. Only 65 percent get a half-hour's consideration on the first visit and this includes the taking of x-rays which may occupy a large portion of that time.

To the digger who can extract from such tables, there is some valuable information as to the method in which chiropractors function. However, aside from these solid tables there is little in the book to inspire the reader that what he is reading is an objective evaluation of whether chiropractors help.

Dr. C.M. Godfrey
Department of Rehabilitation Medicine

In Memoriam

Professor Luciana Picchione, Erindale College, Department of Italian Studies, Nov. 28.

Prof. Picchione received all of her degrees from U of T: a BA in 1971, MA in 1972 and PhD in 1976.

She joined Erindale as an assistant professor in 1976 and was awarded tenure and promotion to associate professor in July 1980.

The Italian community in Toronto knew Prof. Picchione through her articles published in newspapers and magazines

such as *Il Giornale di Toronto*, *Il Corriere Canadese* and *Mosaico* and she had her own radio program on CHIN. Her interests were geared towards socio-educational problems related to the Italian community; surveys she conducted in Toronto secondary schools contributed to a cultural awareness on the part of the Italian community of the necessity of encouraging the teaching of Italian at the pre-university level.

Press Notes

Getting a bit tired of that same old turkey and mincemeat? Finally decided plum pudding and hard sauce just won't do? Ready for a real change—an exceptional epicurean experience? Have we got the book for you! It's the ultimate gastronomic celebration for the palate that has sampled everything, and it is guaranteed to make the most world weary, jaded Casanova of the kitchen sit up and take notice. You can bet he has never sampled mice in milk or fried lamb's pluck, feasted on pot-roasted udder or pig-organ sausages, dreamed of delicacies like grilled rat Bordeaux style, roasted cockchafer grubs in paper, or coconut cream marinated dog on skewers.

All these tasty treats are to be found in Calvin W. Schwabe's highly imaginative Unmentionable Cuisine (a bargain at \$24.00), one of the ten gift books recommended by David Stimpson of the U of T Bookroom to make this holiday season jollier, livelier, and just a bit more unusual.



His other choices range from fiction:

Bellefleur by Joyce Carol Oates \$16.95

Earthly Powers by Anthony Burgess \$19.95

Loon Lake by E.L. Doctorow \$15.50

to history

Canadian Airmen and the First World War by S.F. Wise \$35.00

to social analysis

The Chinese by John Fraser \$19.95

to humour

Pussycats Need Love too by George Booth \$11.25

to earthly and unearthly guides

Cosmos by Carl Sagan \$25.00

The Next Whole Earth Catalogue edited by Stewart Brand \$16.00

to nature and art

'And some brought flowers' compiled by Mary Alice Downie and Mary Hamilton with illustrations by E.J. Revell \$24.95.

All of which, with the odd drop of shark ball soup and fermented mare's milk, should help you to have a roty, roistering good Christmas.



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Events

Lectures

Thursday, January 8
**Some Psychoanalytic Remarks
on Gogol's *Overcoat*.**
Prof. Daniel Rancour-Laferrière, Uni-
versity of California, Davis. Debates
Room, Hart House. 4 p.m.
(Russian & East European Studies,
Chair of Ukrainian Studies and Slavic
Languages & Literatures)

Monday, January 12
Internal Colonialism Revisited.
Prof. Michael Hechter, University of
Washington, Seattle. 229 Borden
Building. 2 p.m.
(Ethnic & Immigration Studies)

Wednesday, January 14
**The Gilgamesh Epic: A Babylonian
Odyssey.**
Prof. Em. Thorkild Jacobsen, Harvard
University; second of four in Society for
Mesopotamian Studies public lecture
series. Lecture theatre, Faculty of
Library Science, 140 St. George St.
8 p.m.

Seminars

Monday, January 5
**MHC Restriction and Alloreactivity
of Antigen Specific Proliferating
T Lymphocyte Clones.**
Dr. Ronald H. Schwartz, National Insti-
tute of Allergy & Infectious Disease.
417 Best Institute. 12.30 p.m.
(BBDMR)

Tuesday, January 6
**On the Mechanisms of Calmodulin
Action.**
Dr. Jerry H. Wang, University of
Manitoba. 417 Best Institute. 4 p.m.
(BBDMR)

Thursday, January 8
**Methodology of the Psycholinguistic
Approach to Literature Based on the
Writings of Daniel Rancour-
Laferrière.**
Prof. Daniel Rancour-Laferrrière, Uni-
versity of California, Davis. Meeting
Room, Hart House. 10.30 a.m.
(Russian & East European Studies, Chair
of Ukrainian Studies and Slavic
Languages & Literatures)
(Please note, this is a graduate seminar.)

Friday, January 9
**Western Ideologies and Third World
Development Strategy: A Case Study
at the Village Level in Niger.**
Father Gerald McGuigan, Institute for
the Study & Application of Integrated
Development, Toronto. Croft Chapter
House. 12 noon to 2 p.m.
(African Studies Committee, CIS)

Concerts

Friday, January 9
Orchestral Training Program.
Participants of Orchestral Training
Program will give third of four Friday
lunchtime chamber music recitals.
Concert Hall, Royal Conservatory of
Music. 12.15 p.m. Information,
978-3771.

Saturday, January 11
Complete Mozart Sonatas.
Antonin Kubalek, third in series of four
master classes and concerts. Concert
Hall, Royal Conservatory of Music.
Master class, 2.30 to 5.30 p.m.; concert
8 p.m.
Fees: auditor, class and concert (same
date) \$10; concert \$6. Information,
978-3771.

Haydn/Shostakovich Series.
First of five concerts presented by
Faculty of Music in cooperation with
CBC Radio. Orford String Quartet,
Andrew Dawes and Kenneth Perkins,
violins; Terence Helmer, viola; Dennis
Brott, cello; and Arthur Balsam, piano.
Program: Quartet in G minor (Horseman)
and Piano Sonata No. 32 in B minor by
Haydn; String Quartet No. 8 in C minor
(1962) and Piano Quintet in G minor
(1940) by Shostakovich. Subsequent
concerts on Jan. 25, Feb. 8 and 22,
March 22. Walter Hall, Edward Johnson
Building. 8 p.m.
Tickets: series \$20, students and senior
citizens \$10; single \$6, students and
senior citizens \$3. Information, 978-3744.

Wednesday, January 14
Pierre Gallant, Piano.
Program of 20th century works, classical
compositions influenced by jazz and
jazz compositions influenced by classical
music; fourth in Wednesday noon hour
concert series. Concert Hall, Royal
Conservatory of Music. 12.15 p.m.
Information, 978-3771.

Governing Council & Committees

Wednesday, January 7
**Curriculum & Standards
Subcommittee.**
Council Chamber, Simcoe Hall. 4 p.m.

Meetings

Saturday, January 3
Science, Religion and the Arms Race.
Public Forum. Keynote speaker: Prof.
Everett Mendelsohn, Harvard Univer-
sity. Panel: Prof. Philip Morrison,
Massachusetts Institute of Technology;
Prof. Roger Hutchinson, Department of
Religious Studies; Norman Alcock,
Canadian Peace Research Institute; Kay
MacPherson, Voice of Women.
Moderator: President James Ham. Audi-
torium, Medical Sciences Building. 3 p.m.
(IHPST and Project Ploughshares)

Saturday, January 10
The Semiotics of Biography.
Prof. David Nye, Union College,
Schenectady.
The Ironizing Ethos.
Prof. Linda Hutcheon, McMaster
University.
Meeting, Toronto Semiotic Circle.
205 New Academic Building. Victoria
College. 10 a.m.

Reading

Monday, January 5
Modern Greek Poetry.
George Thaniel will read modern Greek
poetry in the original and in translation;
first in second term series University
College poetry readings. Walden Room,
University College Union, 79 St. George
St. 4.10 p.m.

Colloquia

Thursday, January 8
**Ancient and Modern Development
of Particle Accelerators.**
John Blewitt, Brookhaven National
Laboratory. 102 McLennan Physical
Laboratories. 4 p.m.
(Physics)

Friday, January 9
**A Preliminary Report: (1) Emission
from Reactive Transition States;
(2) Inelastic Molecular Scattering
from Surfaces.**
Prof. J.C. Polanyi, Department of
Chemistry. 428 Lash Miller Chemical
Laboratories. 1 p.m.
(Please note time.)

Exhibitions

Monday, January 5
Art through Nature.
Recent Quebec Art's vision of nature. Art
Gallery, Hart House, to Jan. 29.
Gallery hours: Monday, 11 a.m. to 9 p.m.;
Tuesday-Saturday, 11 a.m. to 5 p.m.;
Sunday, 2 to 5 p.m.

Susan Kelly.
Tapestries. The Gallery, Scarborough
College, to Jan. 23.
Gallery hours: Monday-Thursday, 9 a.m.
to 7 p.m.; Friday, 9 a.m. to 5 p.m.;
Sunday, 2 to 5 p.m.

Sunday, January 11
Association of Independent Artists.
Works in oil, acrylic, gouache and water-
colour. Art Gallery, Erindale College, to
Jan. 30.
Gallery hours: Monday-Friday, 10 a.m.
to 9 p.m.; Saturday-Sunday, 2 to 5 p.m.

Miscellany

Wednesday, December 31
New Year's Eve at Hart House.
Buffet, Harvey Silver Orchestra, String-
band, piano bar in East Common Room,
disco in Arbor Room.
Tickets \$25 per person, \$20 per person
in group of six or more. Tickets at hall
porter's desk, Hart House and Engin-
eering Stores.

Wednesday, January 7
Hockey.
Blues vs Ryerson. Varsity Arena. 7 p.m.
Tickets \$3, students \$2. Information,
978-4112.

Tuesday, January 13
Basketball.
Blues vs Ryerson. Sports Gym. 8.15 p.m.
Admission \$2, students \$1. Information,
978-4112.

Why our science lobby has had little effect on government policy

*"Throughout the years in Canada, the stated science policy objectives of the government have not been those it implemented."**

University researchers are not, either by nature or background, the kind of individuals who are normally prepared to devote time and effort towards lobbying on behalf of research when that same time and effort could be usefully spent on their own research activities.

However, these are not normal times. The policies implemented by government have placed the contribution of the university sector towards national R & D goals in such jeopardy that an extraordinary response from the university community has been generated.

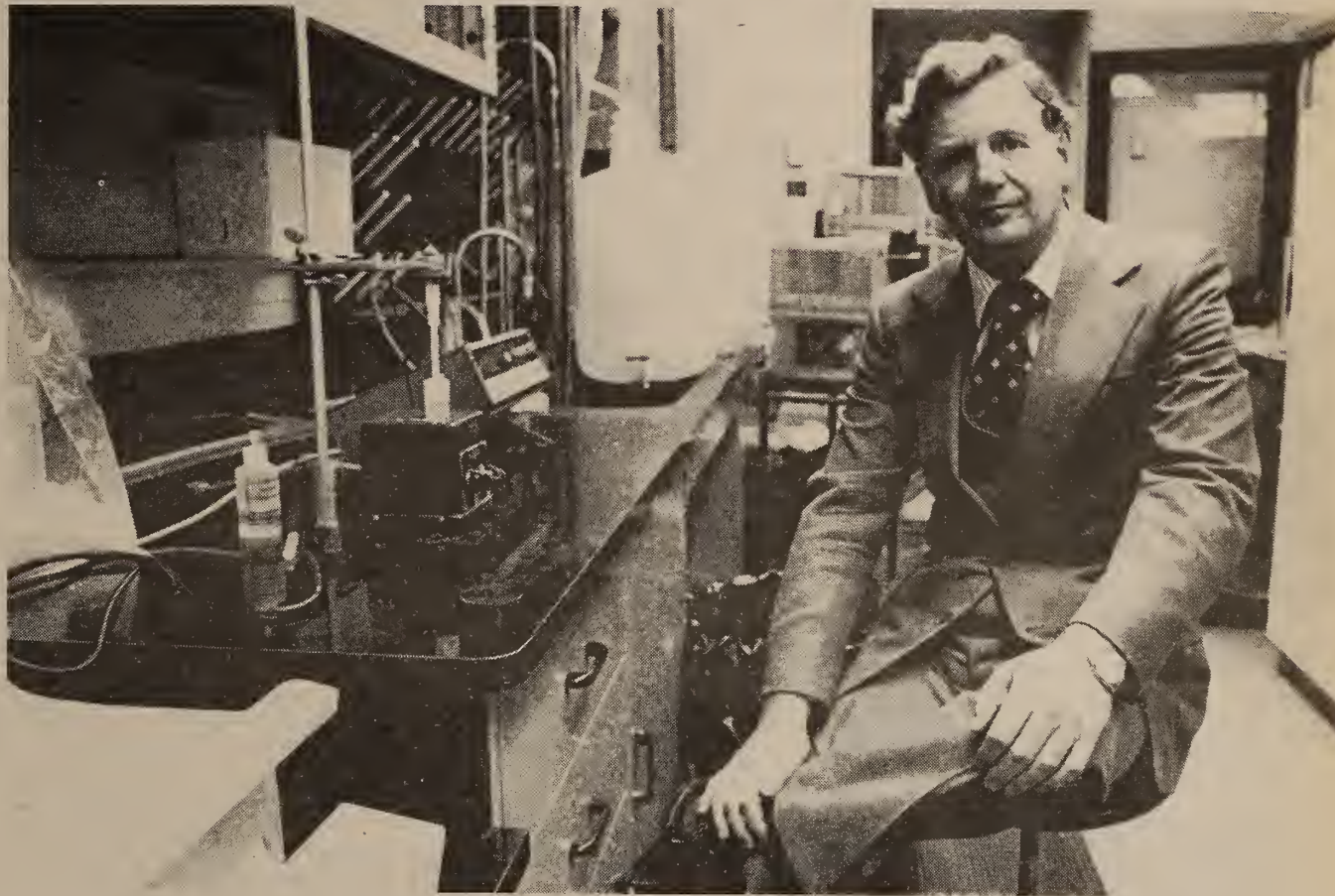
Among the technologically advanced countries Canada ranks last in terms of the percentage of GERD (gross expenditures on R & D) performed by the industrial sector, but first in terms of the percentage performed in the government sector; the university sector performance has the median sector ranking among the Organization for Economic Cooperation and Development (OECD) countries. Successive studies have been unanimous in deploring both the weakness of the Canadian industrial sector as an R & D performer and funder, and the disproportionately generous share of the national R & D science budget allocated to government laboratories.

This was the situation when the Senate of Canada, noting that there was neither a mechanism for establishing science policy in Canada nor a framework for consultation and implementation of science policy, instituted its first study in 1967.

Unfortunately the Lamontagne Committee, overly concerned about the percentage rather than the actual amount of basic research being performed in Canada compared with applied and developmental research, recommended (on incorrect data) a reduction in basic research activities to only 10 percent of GERD; this was to be achieved by greatly increased industrial R & D expenditures. The federal government by 1969 had another concern—the almost exponential growth in University R & D costs which threatened rapidly to exceed even the poor level of industrial R & D. Contrary to what the Lamontagne Committee actually recommended (although the federal government defended its actions by claiming it was only following the senate committee's advice to reduce basic research) a decision was made to reduce funding in the university sector by first "freezing" university grant budgets and, second, allowing inflation to take its toll.

With rapidly rising inflation, effective purchasing power of NRC grants and those of other granting councils diminished by over one-third between 1969 and 1974. This was the catalyst to extensive lobbying and political activity by university scientists protesting against the unjustified cutback in funding.

The problems encountered were formidable. First, it was soon made quite clear that if we wanted more research funds we were to fully justify their need in terms of national objectives (unstated!). Second, at the time the freeze was imposed, the balance of



financial support going to the engineering, physical and biological sciences was inappropriate. Therefore, although we were exhorted to "speak with one voice", the very legitimate separate priorities in different areas of science had also to be considered. Third, scientists had never collaborated before through their professional associations and common ground was hard to find. The fourth problem was to identify who could be influential among what had become a greatly increased number of players and agencies. The choice now included: the Science Council, transformed into a crown corporation in 1968; the Association of the Scientific, Engineering and Technological Community of Canada (SCITEC), specifically formed in 1970 to mould the interests and concerns of a very diverse scientific grab-bag; the new Ministry of State for Science & Technology (1971); the Canada Council; the National Research Council; the Medical Research Council; the Natural Sciences & Engineering Research Council (1978); the Inter-Council Coordinating Committee, and a further 15 ministries involved in funding scientific activities in the university sector.

The fifth problem, as the quotation from the Lamontagne Report indicates, was the difference between stated and executed policies by the federal government. For example, in 1967 GERD, as a percent of GNP, peaked at 1.4 percent. In 1968 the federal government set a target of two percent as the national goal, but while publicly supporting a two percent goal, deliberately allowed GERD to decline to a low of 0.9 percent. In 1978 a new goal of 1.5 percent for GERD/GNP by 1983 was announced, later increased by the Conservative government which followed the earlier Lamontagne recommended figure of 2.5 percent of GERD/GNP. We are now back at a target of 1.5 percent but by 1985! The lack of R & D incentives in the recent federal budget places this very modest goal in doubt. This example of contradiction between stated policy and execution would be comical but for the

fact that the federal government does not seem able to appreciate either the relationship between research and technological development leading to a stimulated economy, nor the contribution that the university sector can make to technological advances.

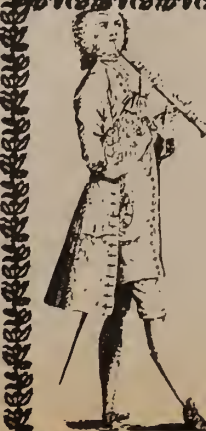
What have we achieved from our lobbying activities for science? Obviously we have not influenced a major, fundamental change in government policy towards science. Equally obvious is the fact that government policies have been following a different route than those advocated by the Science Council, the Lamontagne Committee and others. This lends support to the view that for the last 10 years successive federal governments, with the exception of the May 1979-February 1980 period, have at best not understood science, if they were not actually anti-science.

On the other hand there are many small success stories arising from lobbying activities by scientists. Significantly neither the Royal Society of Canada nor the disciplinary societies have involved themselves directly in active lobbying. Rather it is the "umbrella" organizations, such as the Biological Council of Canada, Social Science Federation of Canada and Chemical Institute of Canada, which have served as the focus of lobbying activities on behalf of their particular constituencies. Developments this year indicate that these large associations are evolving

working ties and joint collaboration with each other, which is encouraging in terms of increased effectiveness in lobbying activities.

In the last 10 years in Ottawa, lobbying government on behalf of a particular cause has moved from being a semi-amateur, part-time occupation of a few groups to being an extremely well-funded, full-time, professional operation carried out by a wide range of organizations. A number of universities now have their own full-time agent in Ottawa—U of T does not! There is no full-time professional lobby on behalf of scientific research. Past and present lobbying activities by scientists have been and are amateur and part-time, although a few people have done remarkably well in putting forward the case for university research. I am not optimistic that we shall ever be able to match the professional lobbying activities of other organizations or groups. What we need is the answer to the question: "What is our real national science policy?" The illogical actions of the federal government suggest that there is no coherent policy—which also explains why our efforts have not had the success warranted by the critical importance of scientific research to this country.

David Mettrick is chairman of the Department of Zoology.



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* *A Science Policy for Canada*. Report of the Special Committee of the Senate on Science Policy (Lamontagne Committee), vol. 4, p. 9, 1977.

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For Sale — fabulous architect-designed 3 bedroom renovation in Riverdale. Fully detached, sky lights, light wells, two decks, large fenced yard, loft with fireplace, berber carpeting and polished pine throughout. Parking. Phone 465-0625 evenings.

New York City apartment exchange. Mature woman teacher wishes to exchange her midtown Manhattan two-bedroom apartment for Toronto accommodation during her sabbatical, starting approximately February 1981. Enquire at 484-9449 in Toronto.

Would you like to do something for peace? Help the Lester B. Pearson Peace Park while you are alive and remember it in your will. All contributions are income tax deductible. Roy Cadwell, M.A., Chairman, Tweed, Ontario. K0K 3J0.

Committee Highlights

At its meeting Dec. 8 the Planning & Resources Committee

- approved that a proposal from the School of Physical & Health Education to mount a research program examining the interactions between health education, an active lifestyle and the aging process be designated eligible to apply for Connaught development grant support. In making a recommendation to Planning & Resources that the proposal be approved for eligibility, Harry Eastman, vice-president (research and planning) and registrar, noted that the school's planning since 1975 has included a re-examination of its objectives and reallocation of efforts toward research development. An ACAP report had suggested that potential exists for graduate education in physical and health education at U of T, and in 1976, the Planning Subcommittee said that "... the development of a research potential is an essential prerequisite to any graduate program that the school might wish to mount." With the appointment of a new director with an established research program in fitness and lifestyle changes, a shift toward research of an applied nature with a more direct relationship to the undergraduate curricular goals of the school and the move into the new athletic complex providing improved laboratory space, Eastman said "the improvement in the Faculty's research activity has been highly visible ..."
- recommended approval of the "Policy on -90 Series Computing Accounts". The policy attempts to correct the current situation where many departmental budgets end the budget year with substantial balances in their computer

accounts, while other departments, especially those which are just starting to discover the potential of the computer as a tool for their activities, are prevented access to computer services because of lack of funds. In addition, it attempts to relax the relationship between the University of Toronto Computing Services (UTCS) budget and the total amount of -90 series funds available; presently, as a result of efforts by departments to over-allocate so as not to run out of funds in April, the amount of UTCS income from -90 and -98 accounts is less than forecast.

To allocate computer resources, it is proposed that

- departments and divisions continue to have -90 series accounts and that these funds be considered UTCS usage entitlements

- department and divisional budgets for -90 series entitlements be reviewed and revised each year taking into consideration actual usage in the past year

- a pool of additional entitlements be created for -90 accounts to be allocated in response to faculty-initiated requests to meet new or unexpected needs

- allocations from the pool should attempt as much as possible not to increase usage at peak periods

- recommended that the capital requests list for 1981-82 be amended to include the Edward Johnson Building as the 13th priority for the purposes of encapsulating the insulating material which contains asbestos or replacing it with other insulation at an estimated cost of \$900,00 (see story, page 1)

Research News

U of T Humanities & Social Sciences Committee Conference Travel Grants

Funds are available to cover transportation costs only to present a formal paper at an overseas conference. The next deadline date is *January 15* for conferences taking place from April 1 to July 31. Because funds are usually fully committed for each conference grant competition, it is recommended that applications be submitted by the above deadline date even if official confirmation of the invitation to give the paper is delayed.

For further information, telephone ORA at 978-2163.

NSERC Undergraduate Summer Research Awards

The Natural Sciences & Engineering Research Council has agreed to extend the deadline date for these applications to *January 31*. Any further information will be sent to individual departments.

Upcoming Deadlines

Connaught Fund new staff grants: *January 15*

Ontario Thoracic Society (Ontario Lung) grants in aid of research: *January 15* for awards for a one-year period commencing July 1.

Deadline

The next issue of the *Bulletin* will be Jan. 12. Deadline for receipt of material at Information Services, 45 Willcocks St., for this issue is mid-day *Wednesday, December 24*.

In other words, *events for the period Jan. 12 to 26* are due at the *Bulletin* before the holidays.

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